



[12] UTILITY MODEL REGISTRATION

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[54] Title: ELECTRIC FISHING SPEAR

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[30] Foreign Application Priority Data: NONE

[51] International Class: A01K81/04 (2006.01); H02J50/00 (2006.01)

[57] **ABSTRACT**

Disclosed is an electric fishing spear relates to an electric fishing spear device designed to enhance fish capture efficiency by integrating a high-voltage electrical discharge system into a traditional spear format. The device comprises a shaft which serves as the primary structural support, and a handle grip affixed to its uppermost part to provide ergonomic handling. A push-button switch is disposed at the top of the handle grip, allowing the user to control the electrical operation. Enclosed within the handle grip is a rechargeable battery that serves as the primary power source for the device. Attached below the handle grip is a circuit enclosure that houses a step-up DC converter. This converter is electrically connected to both the rechargeable battery and the push-button switch, and is configured to increase the voltage to a level suitable for stunning aquatic targets. Located at the bottom tip of the shaft are a pair of spearhead electrodes, a positive electrode and a negative electrode, both electrically connected to the output terminals of the step-up converter. These electrodes serve a dual function: acting as the physical spearhead for thrusting into the fish, and as conductive terminals through which high-voltage current is delivered. Upon activation of the push-button switch, current flows from the battery to the step-up converter, which boosts the voltage and sends it to the spearhead electrodes. When these electrodes come into contact with a fish, the circuit is completed through the fish's body, resulting in immediate stunning or immobilization. This configuration provides an efficient, safe, and portable solution for smallscale and recreational fishing.

ISIC REV. 4 : C2790 - (Manufacture of other electrical equipment)

No. of Claim(s) : 1 claim/s

Multiple Dep. Claim(s) : None

Total No. of Claim(s) : 1 claim/s

Drawing(s)

: 1 sheet/s

Description, Claims and Abstract : 7 page/s

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